

## CHAPTER 3 REVIEW PACKET

Directions:

In the box provided next to each target section, put an (S) if you were able to complete the section by *yourSELF*, an (H) if you received a *minimal* amount of *HELP* from me, a classmate, or another source, or a (D) if you felt the section was *DIFFICULT* and required you to get *a lot* of help. This will help provide you by giving you feedback as to what topics you should be focusing on as you prepare for the test. THIS IS DUE THE DAY OF THE TEST.



## Target 3A

Write an inequality that represents each verbal expression.

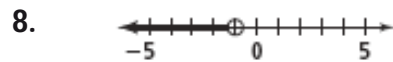
1.  $p$  is greater than or equal to 52.  $a$  is less than or equal to  $-4$ 3. 2 times  $d$  is less than 104.  $r$  divided by 5 is greater than 0

Determine whether each number is a solution of the given inequality.

5.  $2(m + 1) < -6$ a.  $-6$ b.  $-4$ c.  $-2$ 

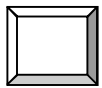
## Target 3B

Write an inequality for each graph.



Graph each inequality.

9.  $y \leq 0$ 10.  $p > -4$ 11.  $a \geq -2$



### Target 3C

Solve each inequality. Graph and check your solutions.

12.  $y - 2 < -7$

13.  $v + 6 > 5$

14.  $12 \geq c - 2$

15.  $8 \leq f + 4$

16.  $-4.3 \geq 2.4 + s$

17.  $22.5 < n - 0.9$

Solve each inequality. Graph and check your solution.

18.  $\frac{x}{3} > -1$

19.  $\frac{w}{4} < 1$

20.  $4 \leq -\frac{p}{2}$

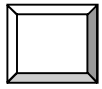
21.  $1 \leq -\frac{2}{3}y$

22.  $3m > 6$

23.  $3t < -12$

24. The goal of a toy drive is to donate more than 1000 toys. The toy drive already has collected 300 toys. How many more toys does the toy drive need to meet its goal? Write and solve an inequality to find the number of toys needed.

25. A family earns \$1800 a month. The family's expenses are at least \$1250. Write and solve an inequality to find the possible amounts the family can save each month.



### Target 3D

Solve each inequality. Check your solutions.

26.  $3f + 9 < 21$

27.  $4n - 3 \geq 105$

28.  $33y - 3 \leq 8$

29.  $2 + 2p > -17$

30.  $12 > 60 - 6r$

31.  $-5 \leq 11 + 4j$

Solve each inequality. Check your solutions.

32.  $2(k + 4) - 3k \leq 14$

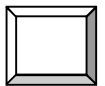
33.  $3(4c - 5) - 2c > 0$

34.  $15(j - 3) + 3j < 45$

35.  $22 \geq 5(2y + 3) - 3y$

36.  $-53 > -3(3z + 3) + 3z$

37.  $20(d - 4) + 4d \leq 8$



### Target 3E

Write a compound inequality that represents each phrase.

38. all real numbers that are less than  $-3$  or greater than or equal to  $5$

39. The time a cake must bake is between  $25$  minutes and  $30$  minutes, inclusive.

Solve each compound inequality.

40.  $5 < k - 2 < 11$

41.  $-4 > y + 2 > -10$

42.  $6b - 1 \leq 41$  or  $2b + 1 \geq 11$

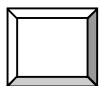
43.  $5 - m < 4$  or  $7m > 35$

44.  $3 < 2p - 3 \leq 12$

45.  $3 > \frac{11+k}{4} \geq -3$

46.  $3d + 3 \leq -1$  or  $5d + 2 \geq 12$

47.  $9 - c < 2$  or  $-3c > 15$



### Target 3F

Solve each equation. Graph and check your solutions.

48.  $|b| = \frac{2}{3}$

49.  $10 = |y|$

50.  $|x| - 5 = -1$

51.  $7|d| = 49$

Solve each equation. If there is no solution, write *no solution*.

52.  $|r - 9| = -3$

53.  $|c + 3| = 15$

54.  $1 = |g + 3|$

55.  $4|v - 5| = 16$

56.  $3|d - 4| = 12$

57.  $|3f + 0.5| - 1 = 7$